



Powerline, Vineyard Road, and Rittenhouse Flood Retarding Structures Rehabilitation or Replacement Project

The Flood Control District of Maricopa County (District), in cooperation with the Natural Resources Conservation Service (NRCS), is planning the rehabilitation or replacement of the Powerline, Vineyard Road and Rittenhouse (PVR) Flood Retarding Structures (FRS) in order to extend the useful life of the structures and maintain flood control benefits to downstream properties. The structures are earthen flood control dams that were constructed from 1967 to 1969 by the Soil Conservation Service (now National Resources Conservation Service, or NRCS). The District has retained the services of Kimley-Horn and Associates, Inc. a full service engineering design firm to develop the alternatives for the project.

Project Overview

The District operates and maintains the PVR dams and associated flood control facilities located in northwestern Pinal County (see the project site map on back). The dams provide flood hazard protection from the 100-year rainfall event (one percent chance of occurring in a year) for the Central Arizona Project (CAP) canal, 72 square miles of downstream property including Phoenix-Mesa Gateway Airport, and 100,000 persons residing within portions of both Pinal and Maricopa counties.

The primary goal is to develop an implementable project designed to maintain or improve upon the level of flood protection currently being provided by the PVR dams for a new project life of 100 years. The project must meet both District and NRCS requirements for flood protection, and must meet District, NRCS and Arizona Department of Water Resources (ADWR) requirements for dam safety. Secondary project goals are to 1) feasibly minimize the future project "footprint," the overall land area encompassed by the future flood control features to capture and carry stormwater; and 2) identify other potential land uses such as development and recreation that are compatible with the safe and proper function, operation and maintenance of the future PVR flood control features.

Project Progress and Next Steps

From 2009 through 2012, the Flood Control District and its Project Team analyzed design alternatives in conjunction with addressing input from the public and stakeholders. Concept alternatives were developed from which a recommended alternative was selected. The concept alternatives and recommended alternative were presented in a series of three public meetings. An environmental assessment concluded a Finding of No Significant Impact. The final recommended alternative replaces Powerline FRS with a flood control channel that drains to Vineyard Road FRS. The Vineyard Road FRS is raised and rehabilitated. Rittenhouse FRS is converted from a dam to a levee that drains to Vineyard Road FRS. All stormwater collected by Vineyard Road FRS drains through the existing Powerline Floodway. A public and agency review period through March 15, 2013 will lead to anticipated final project implementation approval by June 30, 2013.

The project design time frame is estimated to be 2013 to 2016, with project construction anticipated between 2017 and 2024.

For more information, visit www.fcd.maricopa.gov/ads/PVR.htm.

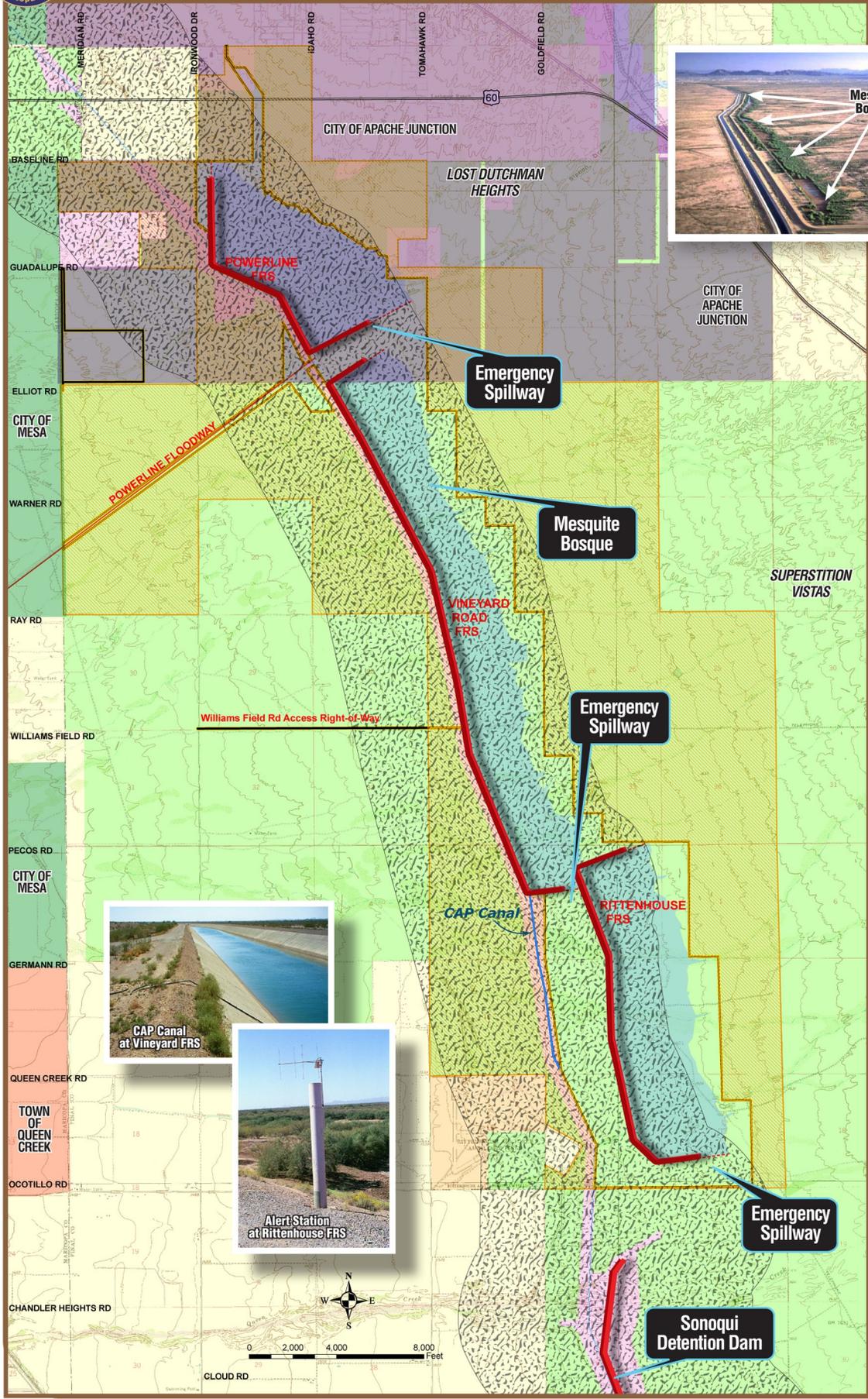
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Site Map



- LEGEND**
- Released Easement
 - Modified Easement Area
 - FRS Ponding Area
 - CAP Canal
 - Wildlife Linkage Corridor
 - State Trust
 - Bureau of Reclamation
 - Private Land
 - Bureau of Land Management
 - Military Reservation
 - City of Apache Junction
 - City of Mesa
 - Town of Queen Creek

